

**DOCUMENT RESUME**

ED 326 199

IR 014 739

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 TITLE Hypermedia: Design and Application. A Select ERIC  
           Bibliography Prepared Especially for the National  
           Conference and Exhibition of the American Association  
           of School Librarians (5th, Salt Lake City, Utah,  
           October 18-22, 1989). Mini-Bib.  
 INSTITUTION ERIC Clearinghouse on Information Resources,  
           Syracuse, N.Y.  
 SPONS AGENCY Office of Educational Research and Improvement (ED),  
           Washington, DC.  
 PUB DATE Sep 89  
 CONTRACT RI88062008  
 NOTE 4p.  
 AVAILABLE FROM ERIC Clearinghouse on Information Resources, Syracuse  
           University, 030 Huntington Hall, Syracuse, NY  
           13244-2340 (free while supply lasts).  
 PUB TYPE Reference Materials - Bibliographies (131) --  
           Information Analyses - ERIC Information Analysis  
           Products (071)  
 EDRS PRICE MF01/PC01 Plus Postage.  
 DESCRIPTORS Annotated Bibliographies; \*Computer Assisted  
           Instruction; Databases; \*Educational Technology;  
           \*Hypermedia; Research and Development

## ABSTRACT

The nine references in this bibliography were selected through a computer search of the Educational Resources Information Center (ERIC) database. The following titles are included: (1) "Multimedia in Education" (Sueann Ambron and Kristina Hooper); (2) "Hypermedia in Academia" (Robert Beck and Donald Spicer); (3) "Design Considerations for Hypermedia Systems" (Brian Gaines and Joan Vickers); (4) "Authoring Considerations for Hypertext" (Greg Kearsley); (5) "Hypermedia and Learning: Freedom and Chaos" (Gary Marchionini); (6) "Hypertext and Information Retrieval" (Karen Smith and others); (7) "Hypermedia: Breaking the Tyranny of the Text" (Kay Vandergrift); (8) "Language Learning and Hypermedia" (John Underwood); and (9) "Intermedia: A System for Linking Multimedia Documents" (Nicole Yankelevich). Annotations are provided for each of the articles listed. (DB)

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## **HYPERMEDIA: DESIGN AND APPLICATION**

### **A Select ERIC Bibliography Prepared especially for:**

**The Fifth National Conference and Exhibition of the  
American Association of School Librarians  
October 18-22, 1989  
Salt Lake City, Utah**

**Compiled by Nancy R. Preston**



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## Mini-Bib

### HYPERMEDIA: DESIGN AND APPLICATION

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Citations in this bibliography were selected through a computer search of the Educational Resources Information Center (ERIC) database. The term **hypermedia**, as an identifier, was used to retrieve all documents.

Ambron, Sueann and Hooper, Kristina, Eds. (Spring 1987). *Multimedia in Education*. Proceedings of Invitational Conference on Multimedia in Education, Cupertino, CA, June 19-20, 1986. *Learning Tomorrow: Journal of the Apple Education Advisory Council* [special issue] 346pp. (Available EDRS: ED 302 179).

This collection of articles exploring multimedia in education includes several pieces on hypermedia design and application. Sample titles include: "Issues in Designing a Hypermedia Document System: The Intermedia Case Study" (Nicole Yankelovich, Karen Smith, L. Nancy Garrett, and Norman Meyrowitz); "NoteCards: A Multimedia Idea Processing Environment" (Frank G. Halasz); "The Shakespeare Project" (Larry Friedlander); "Grapevine--An Excursion into Steinbeck Country" (Robert Campbell and Patricia Hanlon); "Links or Stories--A Compromise" (Bernard Fischer); "Authoring with Hypermedia" (Carol Kaehler); and "Navigation in Large Knowledge Spaces" (Stephen A. Weyer).

Beck, J. Robert and Spicer, Donald Z. (February 1988). *Hypermedia in Academia*. *Academic Computing* 2(5), pp. 22-25, 49-50.

Briefly reviews the origins of the hypermedia concept, comments on its use in higher education, and describes a project at Dartmouth College that developed a training process to introduce a hypermedia authoring environment to the academic community.

Gaines, Brian R. and Vjckers, Joan N. (March 1988). *Design Considerations for Hypermedia Systems*. *Microcomputers for Information Management* 5(1), pp. 1-27.

Reviews the background, concepts, and role of hypermedia systems and analyzes essential, expected, and desirable features of hypermedia in order to provide a basis for system design and evaluation. Four hypermedium shells and systems are described, and approaches to user interface problems are discussed.

Kearney, Greg. (November 1988). *Authoring Considerations for Hypertext*. *Educational Technology* 28(11), pp. 21-24. (Available UMI: EJ 384 408).

Discusses some of the major aspects of authoring hypertext documents and databases as forms of interactive instruction. Highlights include knowledge structuring; root documents; authoring tools; screen formats; computer graphics; collaboration among authors; cognitive processes; and degree of learner control.

Marchionini, Gary. (November 1988). Hypermedia and Learning: Freedom and Chaos. *Educational Technology* 28(11), pp. 8-12. (Available UMI: EJ 384 406).

Describes hypermedia and its potential uses in learning and teaching. Highlights include storage and manipulation of information; levels of learner control; the roles of teachers and learners and the interactions between them; theoretical and technical problems; instructional difficulties; and evaluation principles for hypermedia.

Smith, Karen E. and others. (March 1988). Hypertext and Information Retrieval. *Online* 12(2), pp. 32-40, 42-46. (Available UMI: EJ 377 847).

An overview of hypertext and hypermedia is followed by a description of the Intermedia system, and possibilities for using hypertext in the information industry are explored. A sidebar discusses information retrieval in the humanities using hypertext, and a 58-item annotated bibliography on hypertext is presented.

Vandergrift, Kay E. (November 1988). Hypermedia: Breaking the Tyranny of the Text. *School Library Journal* 35(3), pp. 30-35. (Available UMI: EJ 384 332).

Describes the possibilities of hypermedia stackware with emphasis on applications for youth librarians. A model for the development and evaluation of stackware is offered, and an example of a proposed hypermedia product is provided. Differences in personal interest levels and learning styles are considered, and copyright concerns are discussed.

Underwood, John. (April 1988). Language Learning and "Hypermedia." *ADFL Bulletin* 19(3), pp. 13-17.

Describes the concept of "hypermedia," by which readers select and link segments of text, audio, video, or other media in a way that helps them to explore and understand information. A case is made for the use of "hypermedia" in helping students learn and understand language through its provision of massive doses of comprehensible information.

Yankelovich, Nicole. (1986). *Intermedia: A System for Linking Multimedia Documents*. IRIS Technical Report 86-2. Providence, RI: Brown University Inst. for Research in Information and Scholarship 19pp. (Available EDRS: ED 296 735).

"Intermedia" is a hypermedia system which was developed for use in university research and teaching. It provides a framework for object-oriented, direct manipulation applications, and the capability to link together materials created with those applications. This paper provides a discussion of hypermedia systems in general, as well as a description of the Intermedia system, and illustrates the operation of the system through a sample session.

Compiled by Nancy R. Preston

September 1989

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Citations with EJ numbers are journal articles from *Current Index to Journals in Education*. They can be obtained from a library, borrowed through interlibrary loan, or, if so indicated, ordered from: UMI Article Clearinghouse, 300 N. Zeeb Road, Ann Arbor, MI 48106 (telephone 1-800-732-0616). \$10.75 per article.

Citations with ED numbers are documents from *Resources in Education*. They can be read at a library with an ERIC microfiche collection or ordered, in microfiche or paper copy, from: ERIC Document Reproduction Service (EDRS), 3900 Wheeler Ave., Alexandria, VA 22304 (telephone 1-800-227-3742). Prices vary.

**Appendix 16**

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